

# BookletChart™



## Lituya Bay

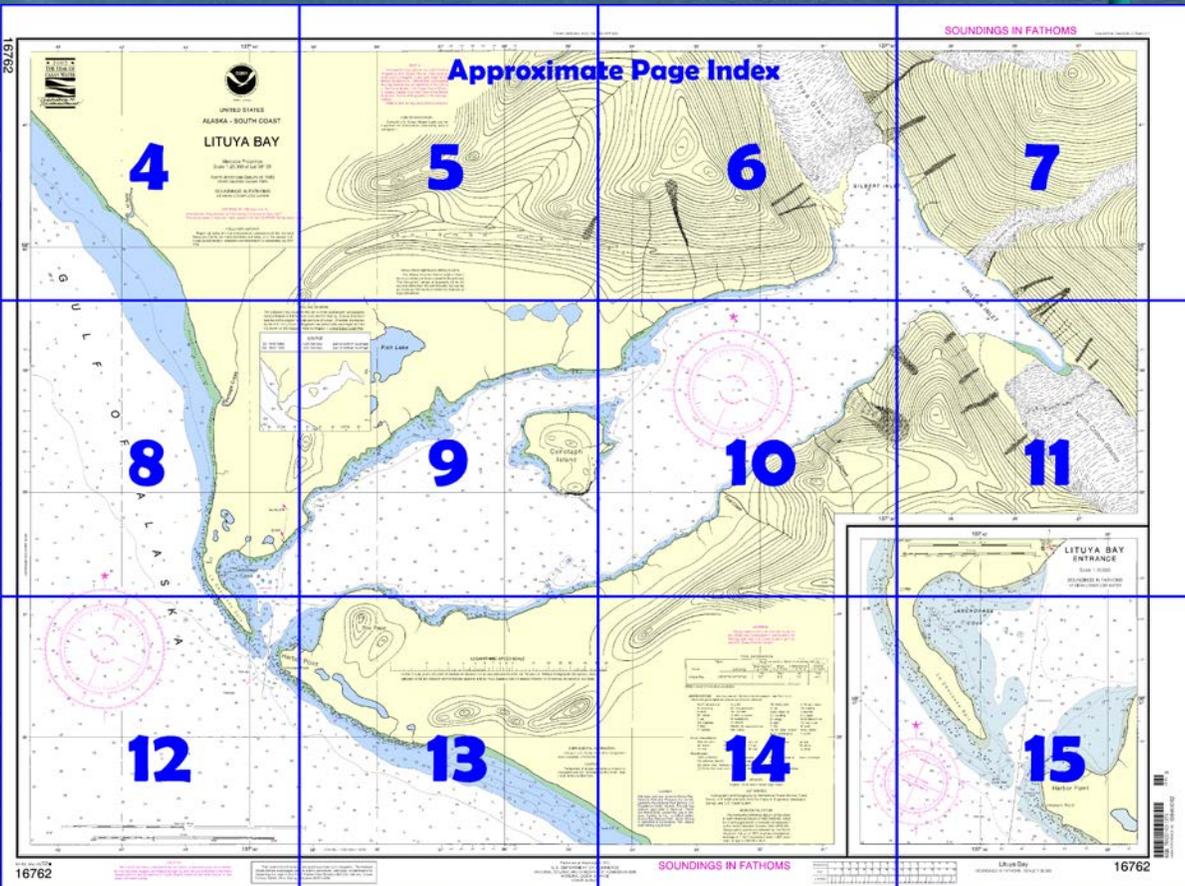
NOAA Chart 16762

*A reduced-scale NOAA nautical chart for small boaters*

*When possible, use the full-size NOAA chart for navigation.*



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



**Published by the  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Coast Survey  
[www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov)  
888-990-NOAA**

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=16762>.



#### (Selected Excerpts from Coast Pilot)

**Lituya Bay**, 39 miles NW of Cape Spencer, affords protected anchorage in all weather, but the entrance is dangerous and should never be attempted except at slack water because of the strong current. The bay extends about 6 miles in a NE direction and has widths of 1 to 2 miles. The shoaler area along the shore around the bay is obstructed by tree trunks. Anchorage for small boats close to the shore is not recommended because of the possibility of

fouling anchors in the debris of trees and roots.

In July 1958, a giant wave, caused by an earthquake-induced avalanche, denuded the shores of Lituya Bay of trees to a height of 1,720 feet.

Giant waves are a recurring phenomenon in the bay, and other catastrophic waves were observed in 1853, 1874, and 1936. Steep shattered cliffs at the head of the bay present a continuing hazard of avalanches; destructive waves, caused by rock falls, can occur at any time.

At the head of Lituya Bay are two arms, each leading to a glacier. **Gilbert Inlet**, on the NW, has **Lituya Glacier** at its head; **Crillon Inlet**, on the SE, has **North Crillon Glacier** at its head. Because of rapid shoaling, depths in these inlets may differ from the charted depths. **Cascade Glacier**, which discharges into the head of the bay between the two arms, can be seen far at sea. Depths in the bay are as much as 78 fathoms. Vessels can obtain water from streams near the head.

**Harbor Point**, on the E side of the entrance to Lituya Bay, can easily be identified from offshore by **The Paps**, two conical, wooded hills about 1 mile to the NE; the NW hill is the higher and rises to 540 feet. Large boulders, 20 to 35 feet high, are strewn along the beach. **Cormorant Rock**, 16 feet high, is the largest of three bare rocks off the S side of Harbor Point.

**La Chaussee Spit**, on the NW side of the entrance to Lituya Bay, is 100 to 225 yards wide and about 0.7 mile long. The spit is 2 to 12 feet high; the outer side of the spit is covered with large boulders.

The entrance to Lituya Bay between Harbor Point and La Chaussee Spit is about 350 yards wide but is mostly foul. The channel has a controlling depth of about 5 fathoms but is only about 50 yards wide; the water shoals abruptly on either side and there are many rocks. The entrance is marked by a **007°30'** lighted range.

**Anchorage Cove** behind La Chaussee Spit, has depths of 3 to 5 fathoms, but is obstructed by numerous tree trunks and rocks awash and is not suitable for anchorage. On a flood tide with S weather, the cove has considerable swell.

**Cenotaph Island**, in midbay and about 3 miles from the entrance, is densely wooded and has several hills, the highest rising about 320 feet. The N and W sides of the island slope gently, but the S side is an abrupt, high cliff with depths of 75 fathoms only 100 yards away. The island is named for a wooden monument, or cenotaph, which was erected by La Perouse in 1786 in memory of officers and men who were lost in the entrance to the bay. No trace of the monument or its site have been found in recent years.

**Currents.**—The current velocity at the entrance is 5.1 knots on the flood and 4.1 knots on the ebb. Ebb currents, running against a SW swell, cause bad topping seas or combers which are dangerous to small craft. Small powered vessels in the bay should stay away from the entrance on the ebb to avoid being swept through. The ebb current follows a narrow path for several miles out to sea and can be seen for some distance. On the flood, the entrance is smooth and local fishing boats often negotiate it with a calm sea but are quickly swept through the channel by the powerful current. Strangers should not attempt to enter except at slack water.

**Ice.**—The bay has never been known to freeze over but icebergs can always be found in the upper part. With NE breezes these icebergs often reach the entrance to the bay before melting. Ice is usually heaviest during October. The many streams flowing from the glaciers at the head of the bay give the water a murky discolored appearance.

### U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Juneau      Commander  
17th CG District      (907) 463-2000  
Juneau, Alaska

# Table of Selected Chart Notes

**HEIGHTS**  
Heights in feet above Mean High Water.

**CAUTION**  
Salt water and land areas in Glacier Bay National Park and Preserve are administered by the National Park Service, U.S. Department of the Interior. Federal regulations applicable in National Parks and Monuments govern the use of the area. Hunting is not permitted within Glacier Bay National Park. Sport fishing is permitted in accordance with Alaska state fishing regulations.

Mercator Projection  
Scale 1:20,000 at Lat 58° 38'  
  
North American Datum of 1983  
(World Geodetic System 1984)  
  
SOUNDINGS IN FATHOMS  
AT MEAN LOWER LOW WATER

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**AIDS TO NAVIGATION**  
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.  
Refer to charted regulation section numbers.

**HORIZONTAL DATUM**  
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.257" southward and 7.023' westward to agree with this chart.

**NOAA WEATHER RADIO BROADCASTS**  
The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.  
  
Althorp Peak, AK KZZ-86 162.425 MHz

**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**SOURCE DIAGRAM**  
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

**COLREGS, 80.1705 (see note A)**  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

**ABBREVIATIONS** (For complete list of Symbols and Abbreviations, see Chart No. 1.)  
Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo Morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Is isophase	OBSC obscured	s seconds
Bn beacon	LT HC lighthouse	OC occulting	SEC sector
C can	M nautical mile	Or orange	S: M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	GrS grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obsn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚓ Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
(?) Rocks that cover and uncover, with heights in feet above datum of soundings.

**TIDAL INFORMATION**

Place	Name (Lat/Long)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Lower Low Water	Extreme Low Water
Lituya Bay	(58°37'N/137°37'W)	9.7 feet	8.8 feet	1.3 feet	-4.5 feet

(589) Latest information available.

16762

★ 2002 ★  
THE YEAR OF  
CLEAN WATER



UNITED STATES  
ALASKA - SOUTH COAST

# LITUYA BAY

Mercator Projection  
Scale 1:20,000 at Lat 58° 38'

North American Datum of 1983  
(World Geodetic System 1984)

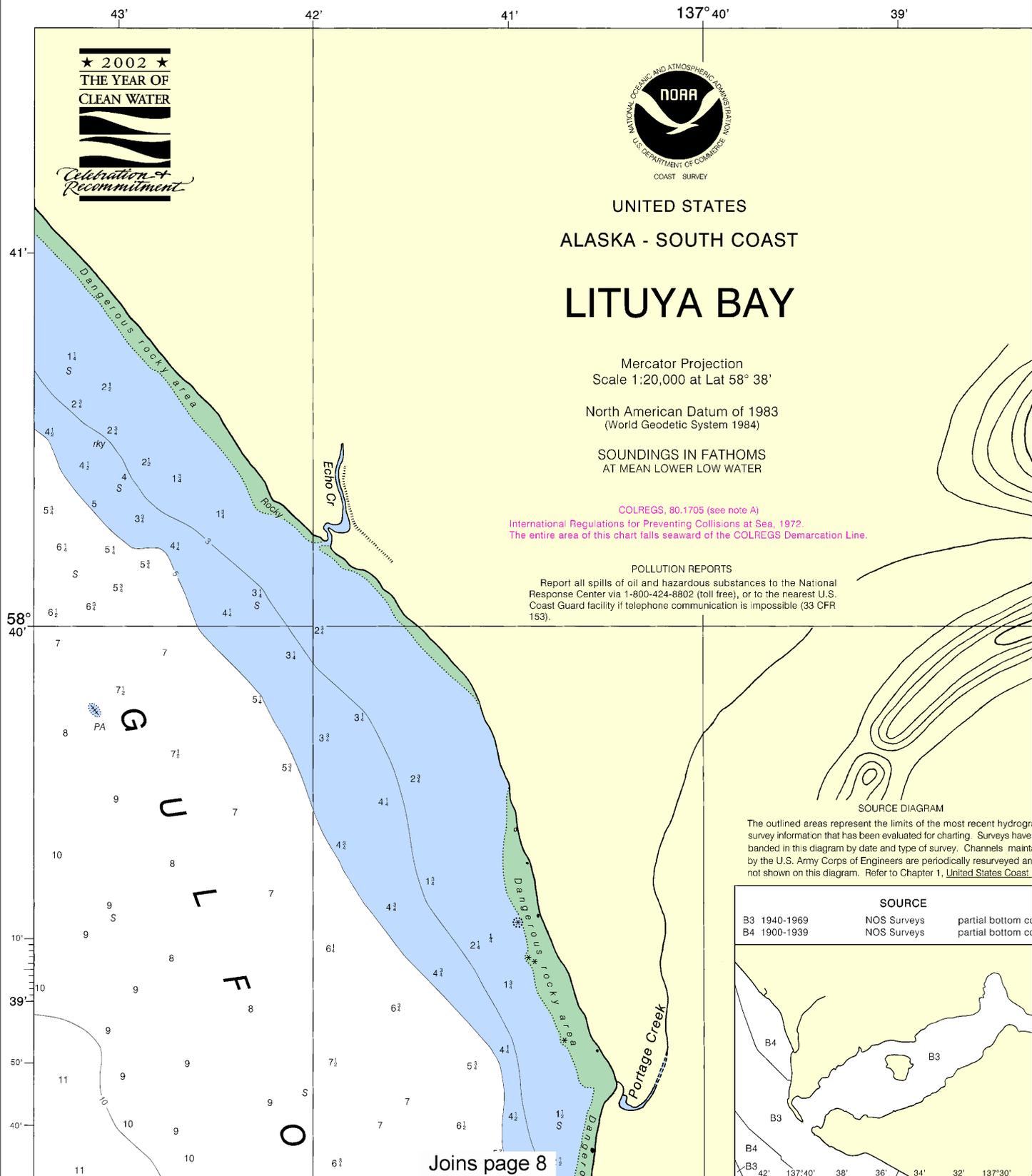
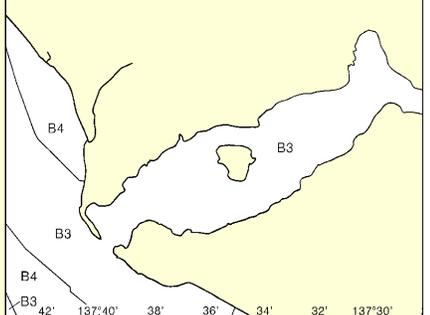
SOUNDINGS IN FATHOMS  
AT MEAN LOWER LOW WATER

COLREGS, 80.1705 (see note A)  
International Regulations for Preventing Collisions at Sea, 1972.  
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

POLLUTION REPORTS  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

SOURCE DIAGRAM  
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and not shown on this diagram. Refer to Chapter 1, United States Coast...

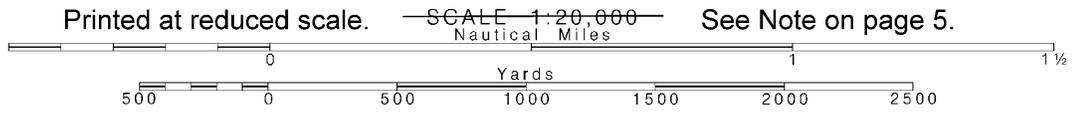
SOURCE		
B3 1940-1969	NOS Surveys	partial bottom co
B4 1900-1939	NOS Surveys	partial bottom co



Joins page 8

# 4

Note: Chart grid lines are aligned with true north.



38' 37' 50" 40" 30" 20" 10" 36' 50" 35' 34' 33'

**NOTE A**

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 17th Coast Guard District in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.

Refer to charted regulation section numbers.

**AIDS TO NAVIGATION**

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

GLACIER BAY NATIONAL PARK AND PR  
(36 CFR 13.65)

C S o l o m o n R a i l r o a d

**NOAA WEATHER RADIO BROADCASTS**

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Althorp Peak, AK KZZ-86 162.425 MHz

graphic  
ve been  
ntained  
and are  
st Pilot.

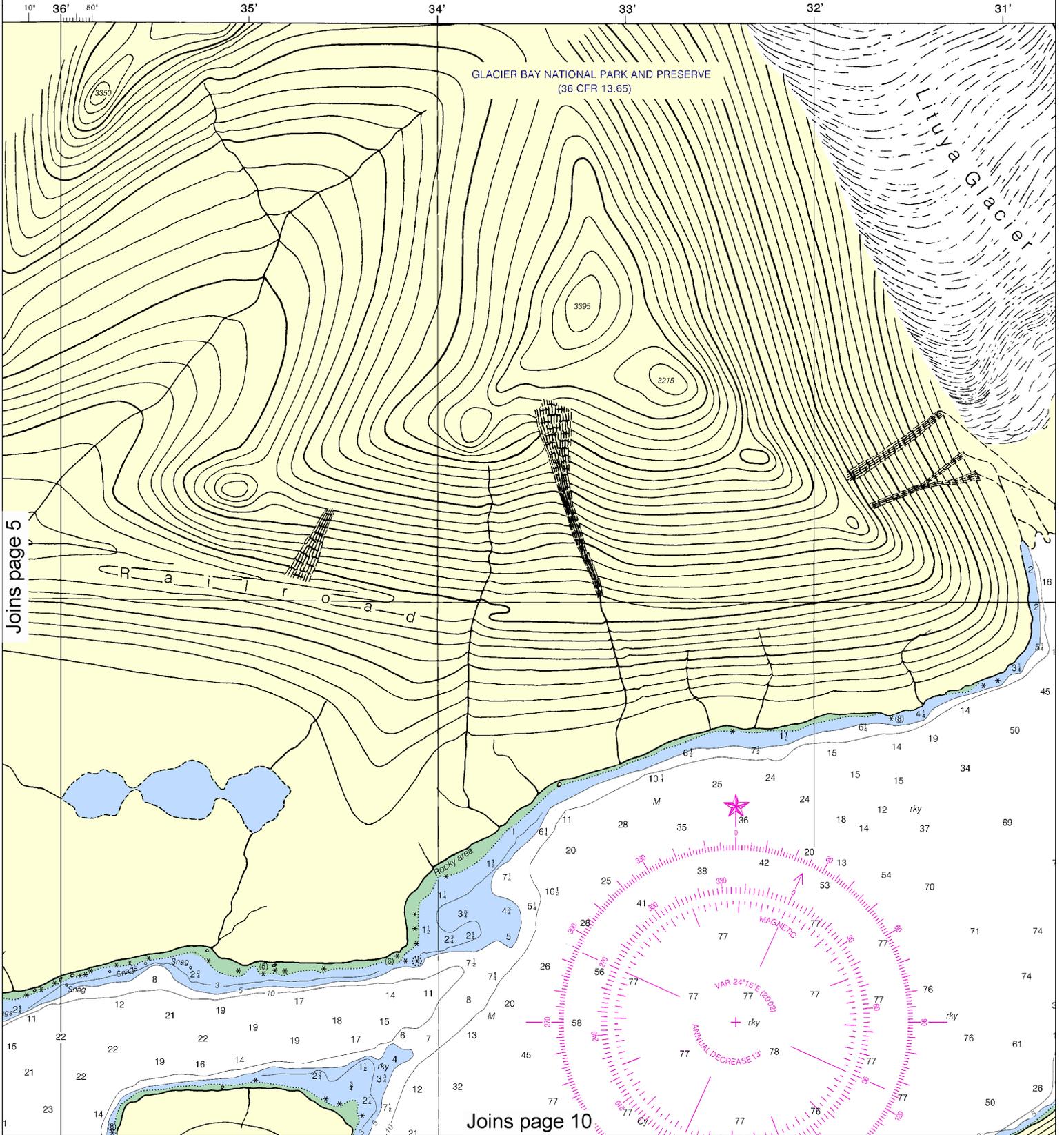
coverage  
coverage

Fish Lake

Joins page 9

Joins page 6

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:26667. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

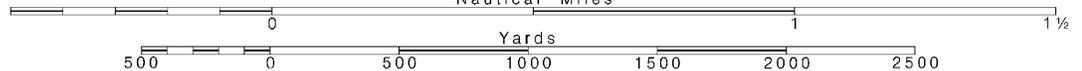


Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

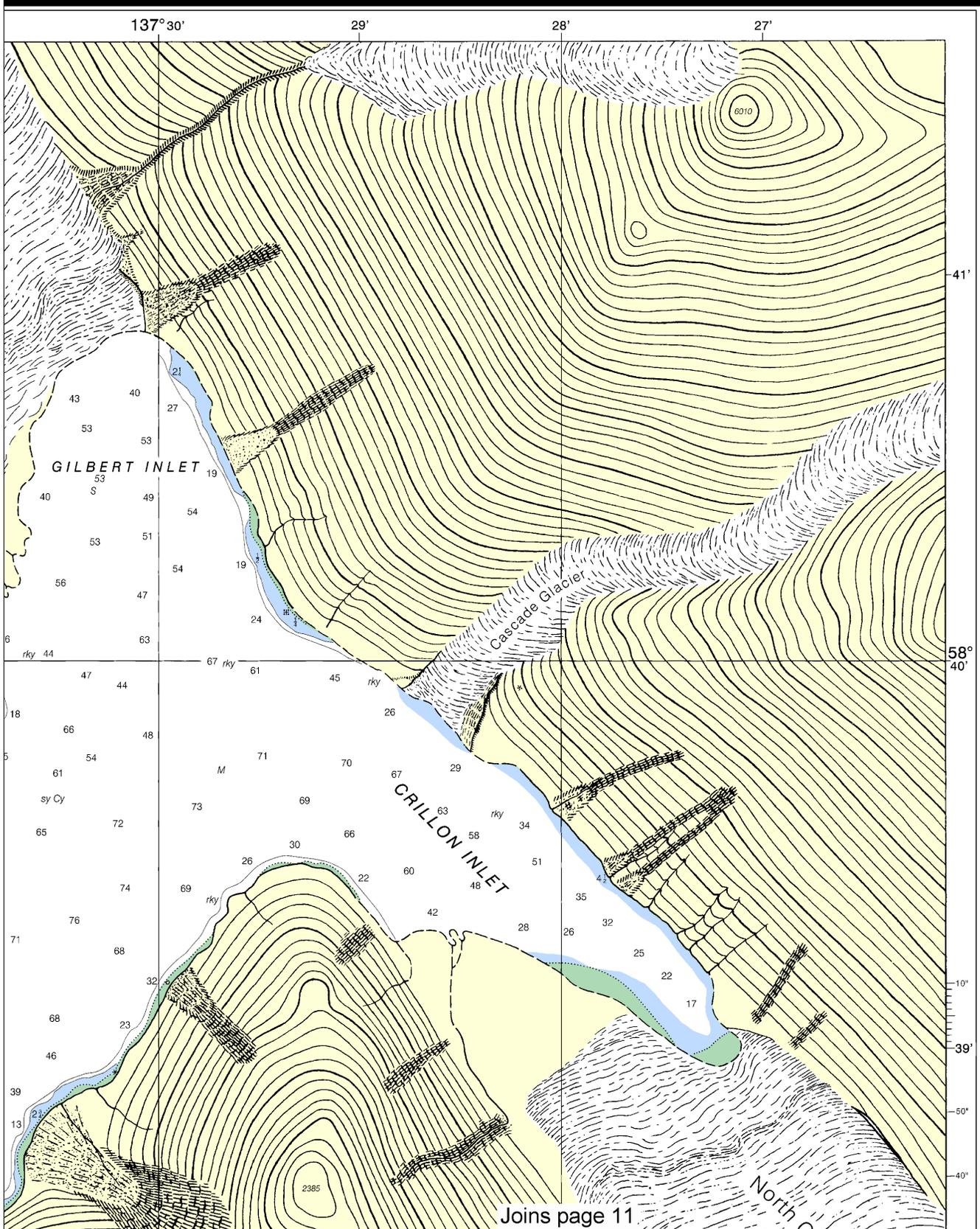
SCALE 1:20,000  
Nautical Miles

See Note on page 5.



# SOUNDINGS IN FATHOMS

Nautical Chart Catalog No. 3, Panels O, P



This BookletChart has been updated through: Coast Guard Local Notice To Mariners: 4812 11/27/2012,  
NGA Weekly Notice to Mariners: 4812 12/1/2012,  
Canadian Coast Guard Notice to Mariners: 0912 9/28/2012.



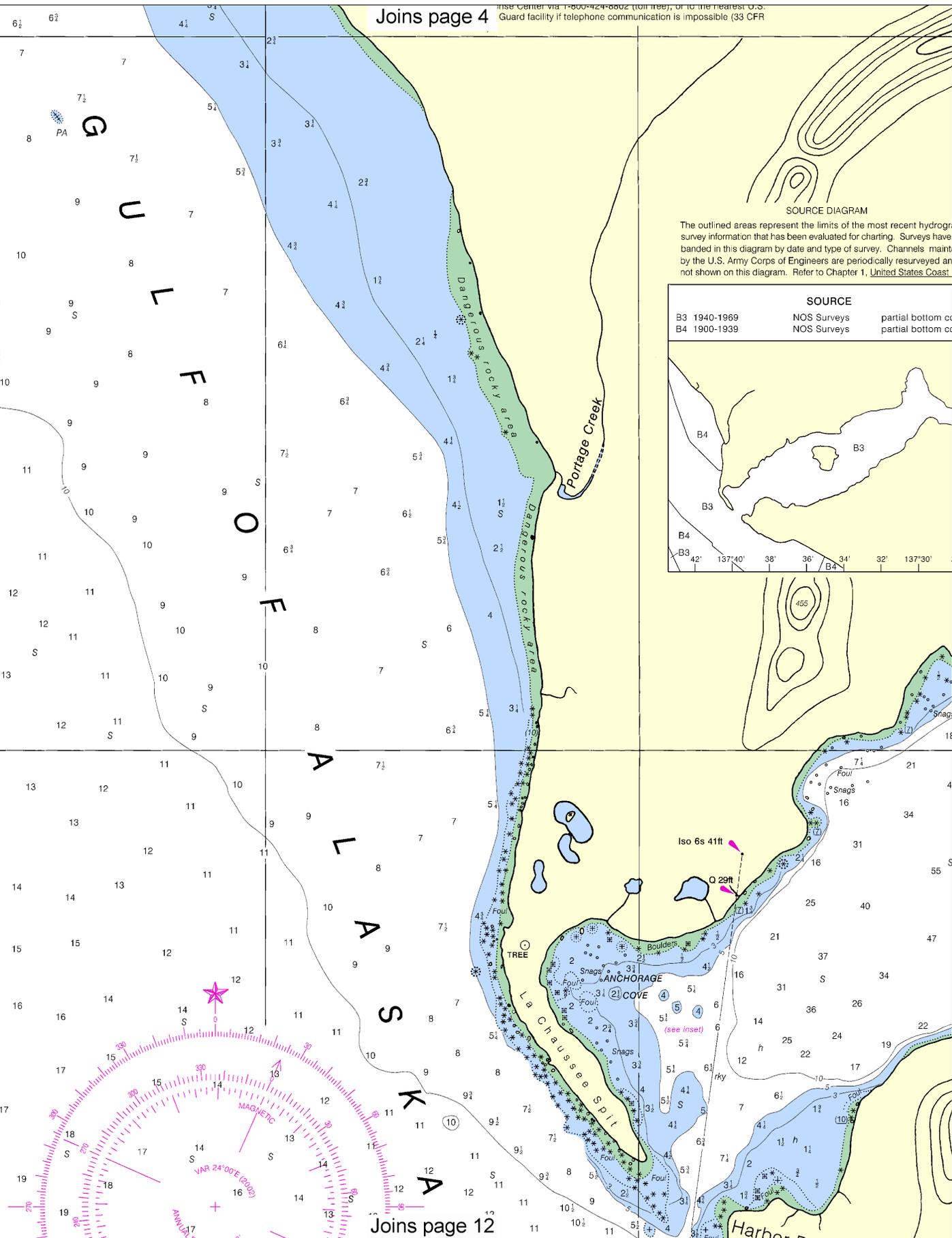
58° 40'

39° 10'

38° 50'

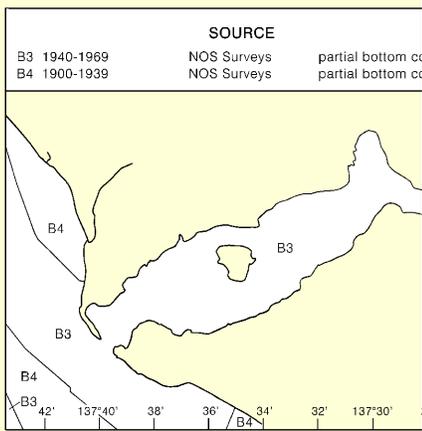
37° 17'

CONTINUED ON CHART 16760

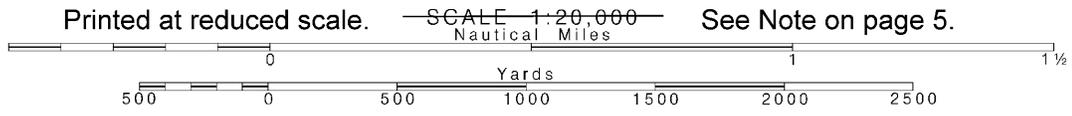


SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and not shown on this diagram. Refer to Chapter 1, United States Coast...



Note: Chart grid lines are aligned with true north.



See Note on page 5.

NOAA WEATHER RADIO BROADCASTS  
The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Althorp Peak, AK KZZ-86 162.425 MHz

graphic  
ve been  
ntained  
and are  
st Pilot.

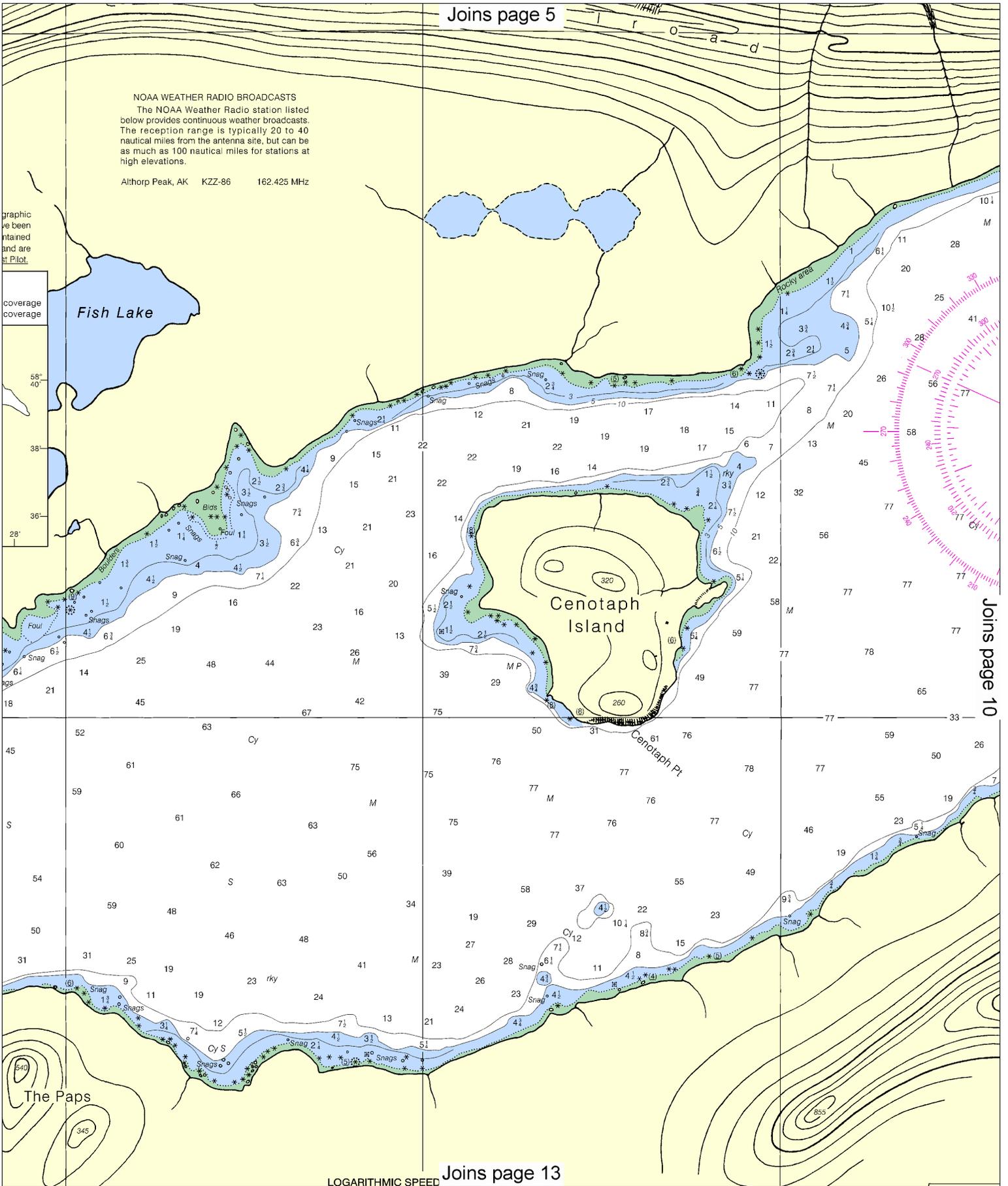
coverage  
coverage

Fish Lake

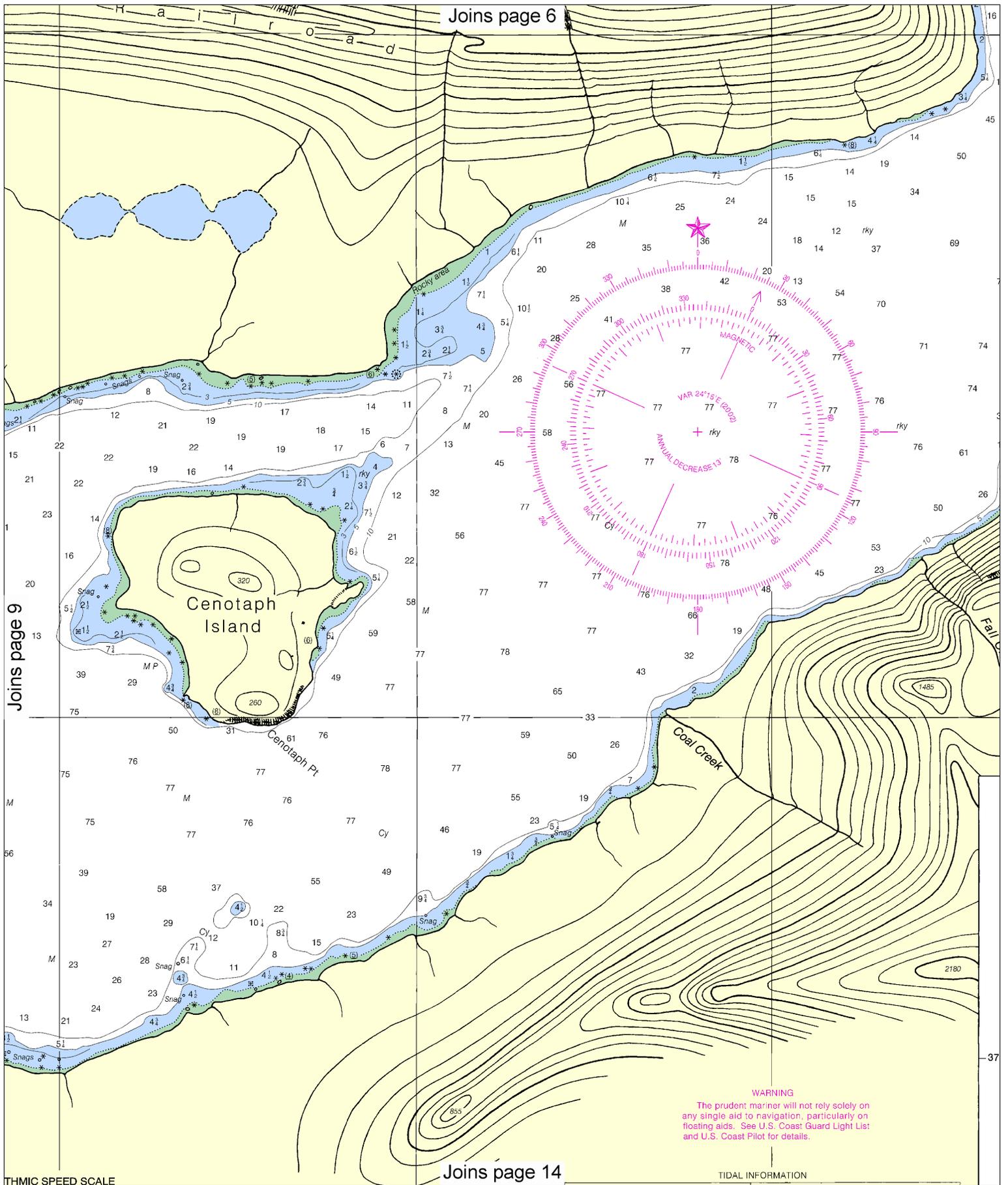
r o a d

58° 40'  
38'  
36'  
28'

Joins page 10



LOGARITHMIC SPEED



THMIC SPEED SCALE

TIDAL INFORMATION

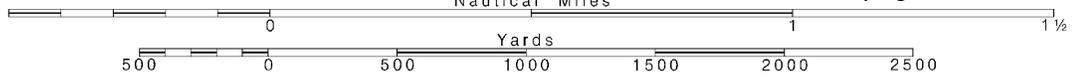
**10**

Note: Chart grid lines are aligned with true north.

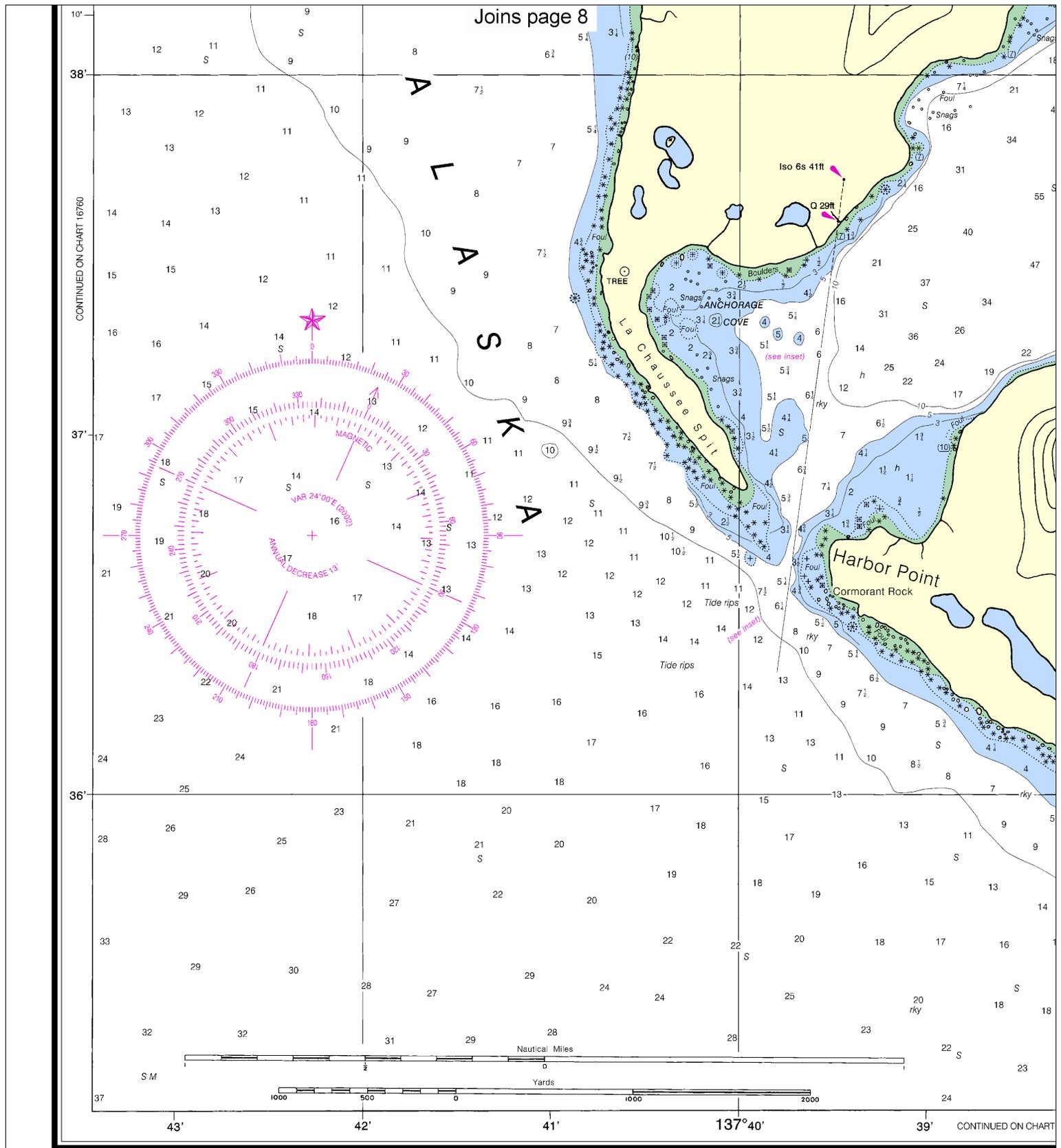
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.







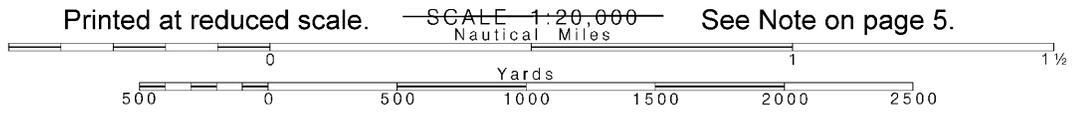
9th Ed., Mar 23/02 ■  
**16762**

**CAUTION**  
 This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

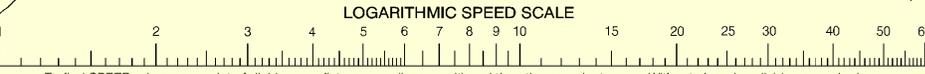
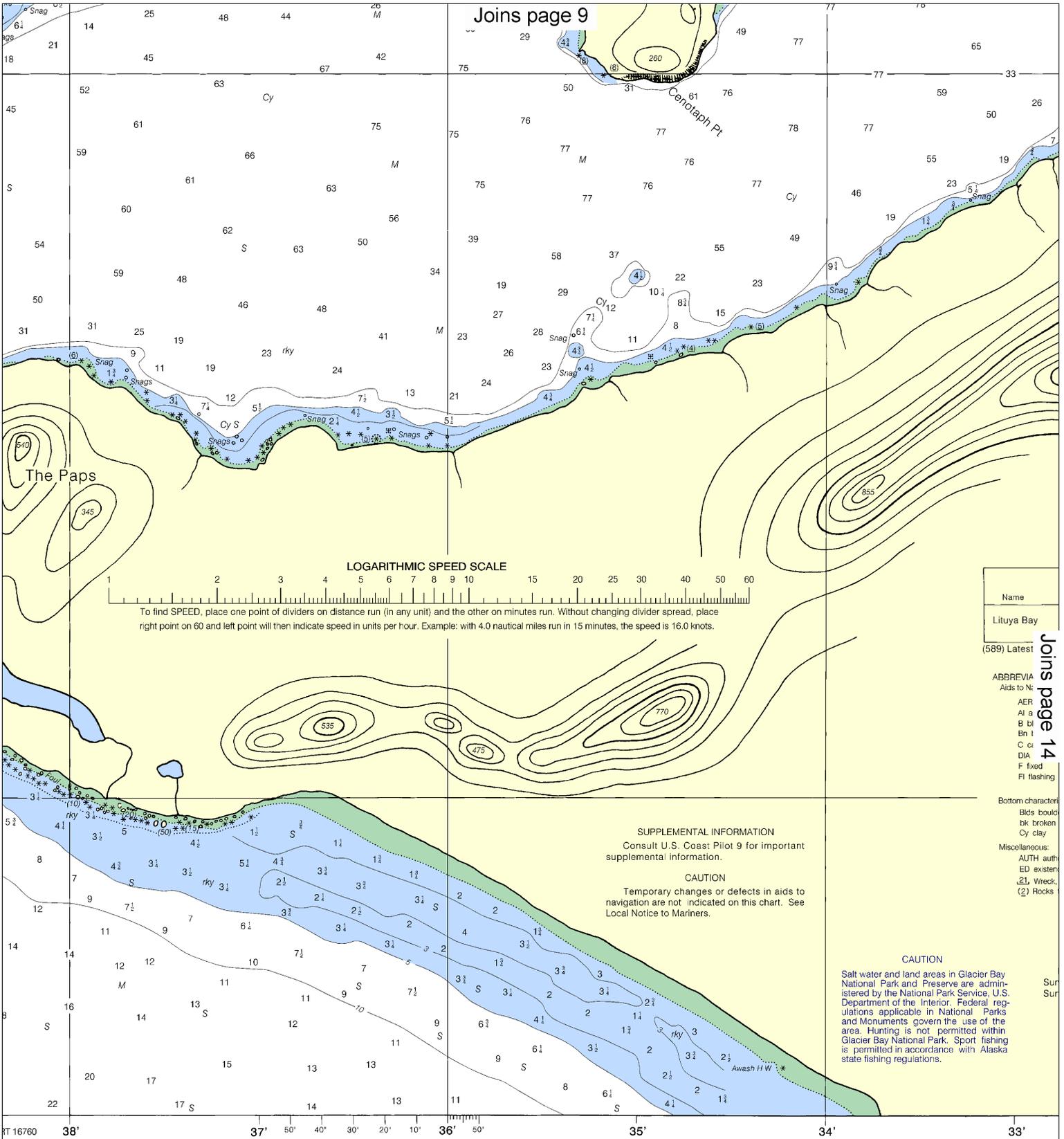
This nautical chart has been designed to promote safe navigation. The Ocean Service encourages users to submit corrections, additions, or corrections to this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

**12**

Note: Chart grid lines are aligned with true north.



See Note on page 5.



Name
Lituya Bay
(589) Latest
ABBREVIATIONS
Aids to Navigation
AER
Al a
B bl
Bn I
C cu
DIA
F fixed
Fl flashing

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 9 for important supplemental information.

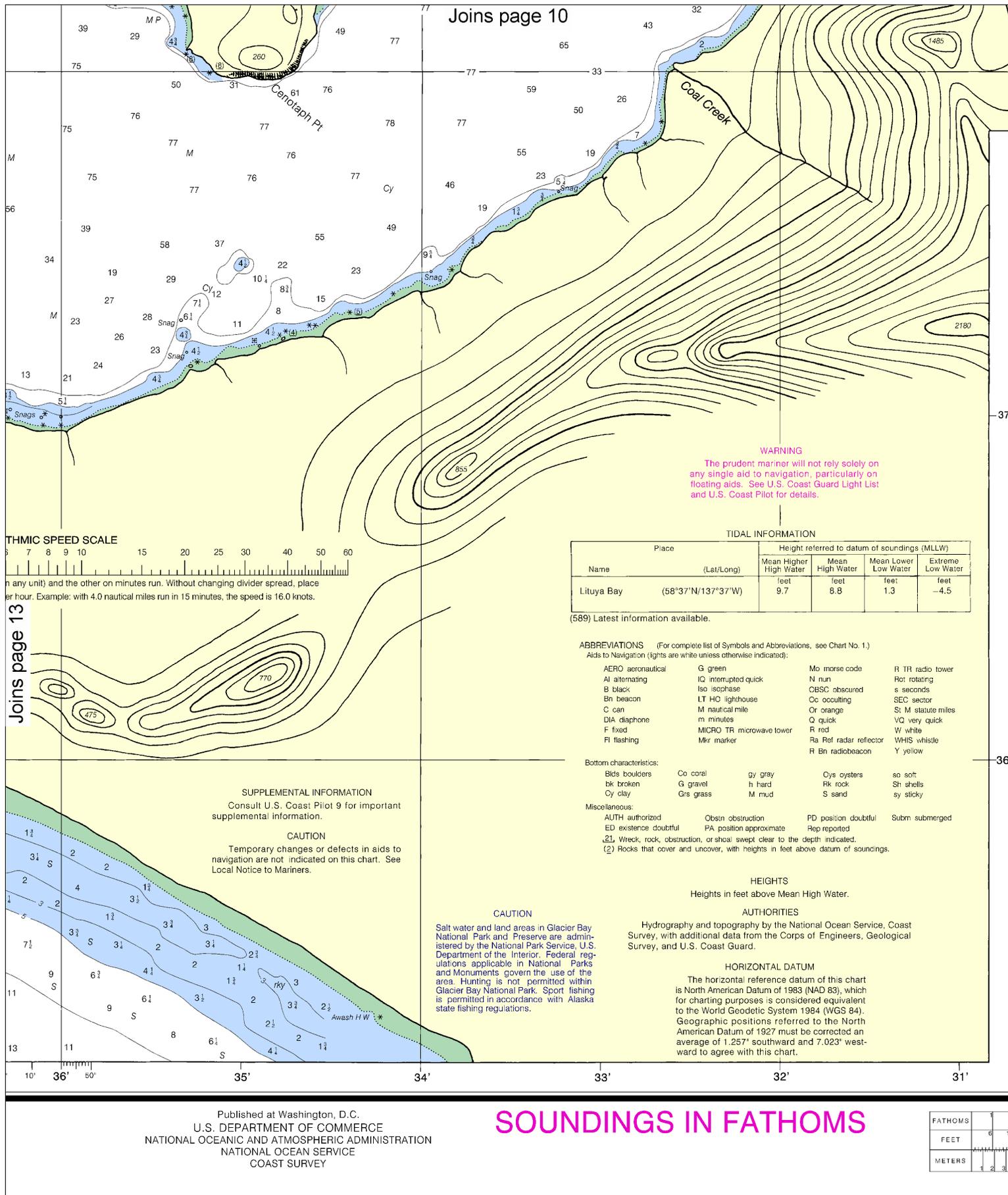
**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**CAUTION**  
Salt water and land areas in Glacier Bay National Park and Preserve are administered by the National Park Service, U.S. Department of the Interior. Federal regulations applicable in National Parks and Monuments govern the use of the area. Hunting is not permitted within Glacier Bay National Park. Sport fishing is permitted in accordance with Alaska state fishing regulations.

The National Oceanic and Atmospheric Administration

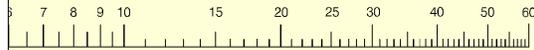
Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

SOUNDING



**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

**THMIC SPEED SCALE**



In any unit) and the other on minutes run. Without changing divider spread, place per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

Joins page 13

**TIDAL INFORMATION**

Name	Place (Lat/Long)	Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Lower Low Water	Extreme Low Water
Lituya Bay	(58°37'N/137°37'W)	feet 9.7	feet 8.8	feet 1.3	feet -4.5

(589) Latest information available.

**ABBREVIATIONS** (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

- |                   |                          |                        |                    |
|-------------------|--------------------------|------------------------|--------------------|
| AERO aeronautical | G green                  | Mo morse code          | R TR radio tower   |
| Al alternating    | IQ interrupted quick     | N nun                  | Rct rotating       |
| B black           | Iso isophase             | OBSC obscured          | s seconds          |
| Bn beacon         | LT HC lighthouse         | Oc occulting           | SEC sector         |
| C can             | M nautical mile          | Or orange              | St M statute miles |
| DIA diaphone      | m minutes                | Q quick                | VQ very quick      |
| F fixed           | MICRO TR microwave tower | R red                  | W white            |
| Fl flashing       | Mkr marker               | Ra Ref radar reflector | WHIS whistle       |
|                   |                          | R Bn radiobeacon       | Y yellow           |

**Bottom characteristics:**

- |               |           |         |             |           |
|---------------|-----------|---------|-------------|-----------|
| Blds boulders | Co coral  | gy gray | Cys oysters | so soft   |
| bk broken     | G gravel  | h hard  | Rk rock     | Sh shells |
| Cy clay       | GrS grass | M mud   | S sand      | sy sticky |

**Miscellaneous:**

- |                       |                         |                      |                |
|-----------------------|-------------------------|----------------------|----------------|
| AUTH authorized       | Obstn obstruction       | PD position doubtful | Subm submerged |
| ED existence doubtful | PA position approximate | Rep reported         |                |
- (1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.  
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

**HEIGHTS**

Heights in feet above Mean High Water.

**AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

**HORIZONTAL DATUM**

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.257" southward and 7.023" westward to agree with this chart.

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 9 for important supplemental information.

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

**CAUTION**

Salt water and land areas in Glacier Bay National Park and Preserve are administered by the National Park Service, U.S. Department of the Interior. Federal regulations applicable in National Parks and Monuments govern the use of the area. Hunting is not permitted within Glacier Bay National Park. Sport fishing is permitted in accordance with Alaska state fishing regulations.

Published at Washington, D.C.  
U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SERVICE  
COAST SURVEY

**SOUNDINGS IN FATHOMS**

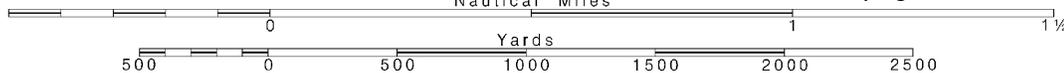
FATHOMS	1
FEET	6 1
METERS	1 2 3

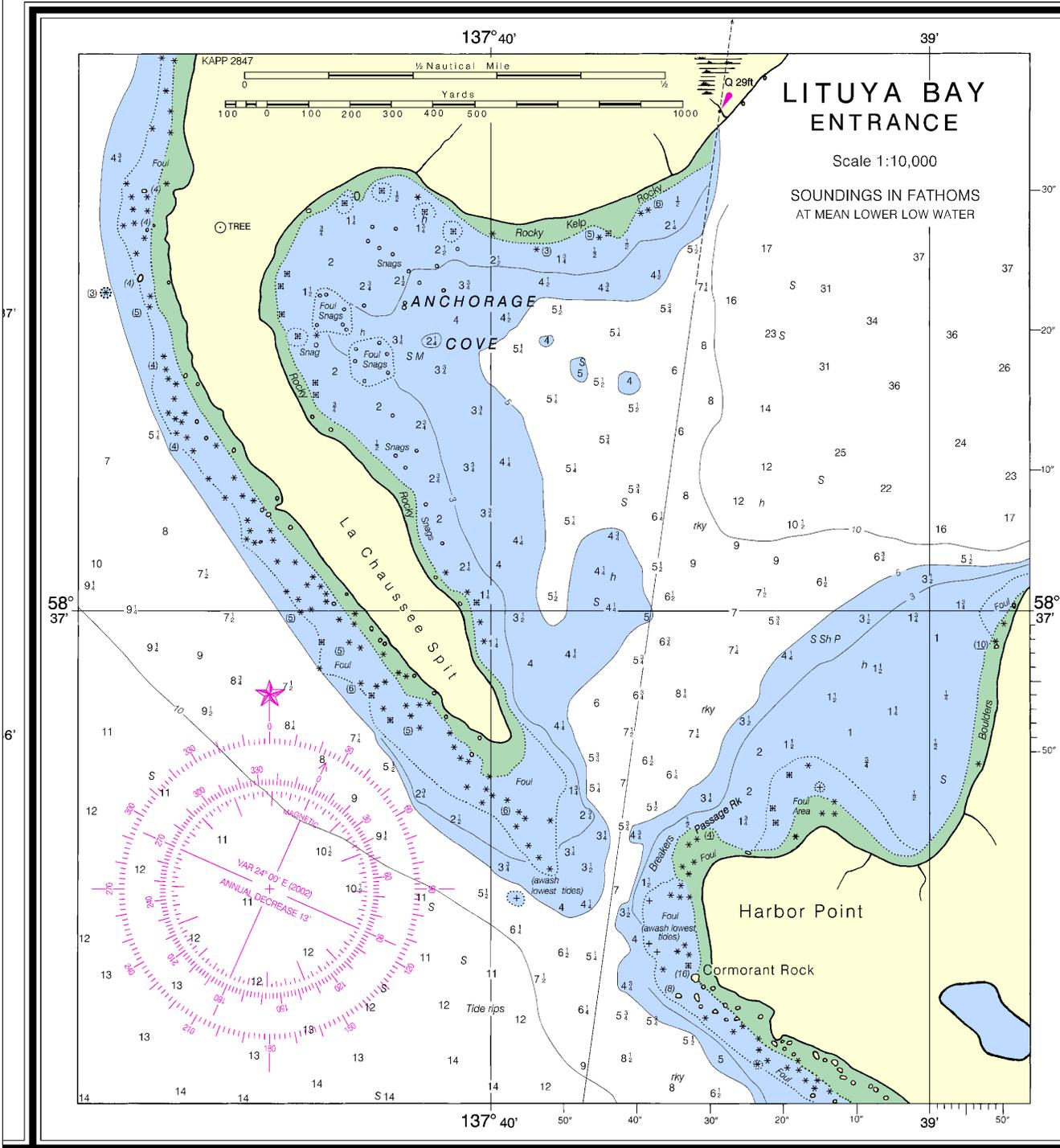
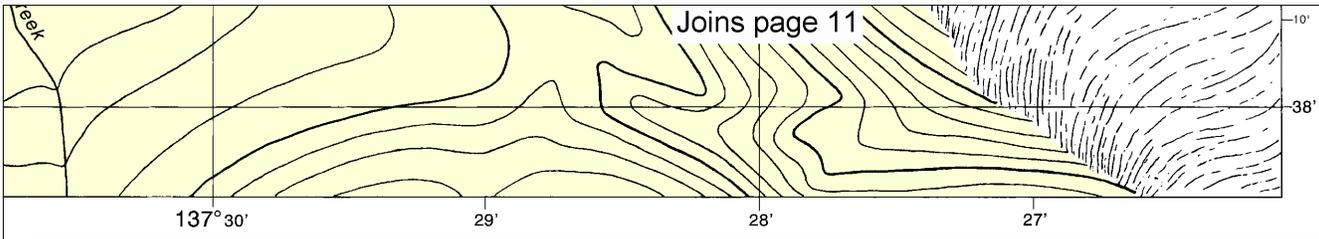
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.





# LITUYA BAY ENTRANCE

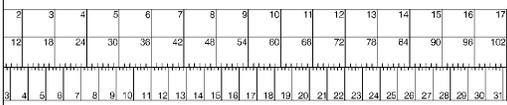
Scale 1:10,000

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

## Lituya Bay

SOUNDINGS IN FATHOMS - SCALE 1:20,000

# 16762





EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 and 78A** – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

### Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS!**



**NOAA Weather Radio All Hazards (NWR)** is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

### Quick References

- Nautical chart related products and information — <http://www.nauticalcharts.noaa.gov>
- Online chart viewer — <http://www.nauticalcharts.noaa.gov/mcd/NOAChartViewer.html>
- Report a chart discrepancy — <http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx>
- Chart and chart related inquiries and comments — <http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs>
- Chart updates (LNM and NM corrections) — [http://www.nauticalcharts.noaa.gov/mcd/updates/LNM\\_NM.html](http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html)
- Coast Pilot online — <http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm>
- Tides and Currents — <http://tidesandcurrents.noaa.gov>
- Marine Forecasts — <http://www.nws.noaa.gov/om/marine/home.htm>
- National Data Buoy Center — <http://www.ndbc.noaa.gov/>
- NowCoast web portal for coastal conditions — <http://www.nowcoast.noaa.gov/>
- National Weather Service — <http://www.weather.gov/>
- National Hurricane Center — <http://www.nhc.noaa.gov/>
- Pacific Tsunami Warning Center — <http://ptwc.weather.gov/>
- Contact Us — <http://www.nauticalcharts.noaa.gov/staff/contact.htm>



— For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey



The Nation's Chartmaker